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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/837,499	04/18/2001	Frank Becker		7890
	7590 01/03/200 JIPS, KATZ, CLARK	EXAMINER		
500 W. MADIS		LEE, EDMUND H		
SUITE 3800 CHICAGO, IL 60661			ART UNIT	PAPER NUMBER
CITICAGO, IL	00001		1732	
			·	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No.	Applicant(s)			
		09/837,499	BECKER ET AL.			
		Examiner	Art Unit			
		EDMUND H. LEE	1732			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status		•				
1)[\(\bar{\sqrt{2}}\)	Responsive to communication(s) filed on 04 Oc	ctober 2006				
	This action is FINAL . 2b) This action is non-final.					
·	,					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
·	Claim(s) <u>1,2,4-10 and 12-21</u> is/are pending in the	ho application				
	_	• •				
	4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed.					
	6)⊠ Claim(s) <u>1,2,4-10 and 12-21</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)[Claim(s) are subject to restriction and/or	election requirement.				
Applicati	on Papers	·				
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
	ınder 35 U.S.C. § 119	and all the state of the state	7.00.07 07.0777 7.0 102.			
	•		4.0			
a)[12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1 Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) 🔲 Notice 3) 🔲 Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

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DETAILED ACTION

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1,8-10, 12, and 15-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor (USPN 5817263) in view of Kelman et al (USPN 6776944). In regard to claim 1, Taylor teaches the basic claimed process including a method for producing a respiratory filter (col 3, lns 40-65; col 4, ln 42-col 5, ln 60; and figs 1-2); intermixing activated carbon with a meltable polymer to produce a mixture (col 3, lns 40-65; col 4, ln 42-col 5, ln 60; and figs 1-2); and molding the mixture in a connecting part comprising an inner surface into which the mixture is formed against so as to make a molded piece and a substantially gastight connection between the molded piece and the inner surface of the connecting part and a molded piece and connecting part that can be operatively connected as a unit to a respirator filter unit (col 3, lns 40-65; col 4, ln 42-col 5, In 60; and figs 1-2). Taylor also teaches that the sleeve and medium are heated in an oven---as a note, this inherently teaches that the heating is conducted under pressure since pressure increases as the heat in the oven increases. Taylor, however, does not teach using an inner surface with a complete or partial groove or tongue. Kelman et al. teaches a molding process that involves mechanically locking a molding material to a preform by using a groove and tongue connection (figs 1-7)--it should be noted that the

groove of Kelman et al extends continuously substantially completely around the inner surface of the preform (fig 5). Taylor and Kelman et al are combinable because they are analogous with respect to molding a material against an inner surface of a preform. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form a complete or partial groove or tongue into the inner surface of Taylor as taught by Kelman et al in order to form a strong connection between the mixture and the inner surface.

In regard to claims 8-10, 12 and 15-16, Taylor teaches operatively connecting the respiratory filter to a respirator or fan filter unit (col 5, lns 55-60)--as a note, it is inherent that the filter of Taylor would be operatively connected a respirator or fan filter in order to use the product; molding the mixture to a make a positive gastight connection between the molded piece and the connecting part (col 8, lns 55-60)--as a note, it is inherent that a positive gastight connection is created in order to provide a gas filter: providing a connecting part comprising the step of providing a ring-shaped connecting part (figs 1-2); and heating the mixture under pressure in the connecting part during the step of molding the mixture (col 4, lns 63-67). Taylor, however, does not teach using an adapter that is separate from and attachable with the filter to the filter unit; snap-fitting the respirator filter to the adapter; and a groove or tongue that extends continuously substantially completely around the inner surface. In regard to using an adapter that is separate from and attachable with the filter to the filter unit, such is a mere obvious matter of choice dependent on the design of the filter unit and of little patentable consequence to the claimed process since it is not a manipulative feature or step of the

claimed process for making a respirator filter. Filters that connect to a filter unit via an adapter are well-known in the filter art. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to design the filter of Taylor (modified) to fit to a releasable adapter that connects to a filter unit in order to diversify the filter of Taylor (modified). In regard to snap-fitting the respirator filter to the adapter, it is well-known in the molding art to connect parts by snap-fit. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use a connecting part having snap-fit capability in the process of Taylor in order to ensure a good connection between the connecting part and the respirator or fan filter unit. In regard to a groove or tongue that extends continuously substantially completely around the inner surface, such is taught by the combination of Taylor and Kelman et al.

3. Claims 2, 4-7, 13-14, and 17-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Taylor (USPN 5817263) in view of Kelman et al (USPN 6776944). Taylor teaches the basic claimed filter including a mixture of activated carbon with a meltable polymer, which has been pressed into a molded piece (col 3, lns 40-65; col 4, ln 42-col 5, ln 60; and figs 1-2); a connecting part that is in a substantially gastight connection with the molded piece, wherein the connecting part comprises an inner surface into which the mixture is formed against, and the connecting part can be operatively connected as a unit to a respirator filter unit (col 3, lns 40-65; col 4, ln 42-col 5, ln 60; and figs 1-2). Taylor, however, does not teach an inner surface with a complete or partial groove or tongue. Kelman et al teaches a molding process that

involves mechanically locking a molding material to a preform by using a groove and tongue connection (figs 1-7)--it should be noted that the groove of Kelman et al extends continuously substantially completely around the inner surface of the preform (fig 5). Taylor and Kelman et al are combinable because they are analogous with respect to molding a material against an inner surface of a preform. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to form the dimples or depression of Taylor

In regard to claims 4-7, 13-14, and 17-21, Taylor inherently teaches the filter of Taylor being placed in a housing (adapter), which is connected to the respirator filter unit. Taylor does not teach a connecting part having fasteners on its periphery for a detachable gastight connection to a respirator or fan filter unit; a connection to an filter unit that is direct and detachable; fasteners that are designed for snap-in or threaded connection; a connecting part made of a polymer with a higher melting point than the polymer of the molded piece, or of cardboard or metal; the filter being operatively connected directly to the filter unit; a groove or tongue that extends continuously substantially completely around the inner surface; at least one fastener on the periphery of the connecting part for substantially gastight connect to an adapter; an adapter that has a threaded portion; and the adapter surround the periphery of the connecting part. In regard to a connecting part having fasteners on its periphery for a detachable gastight connection to a respirator or fan filter unit, it is well-known in the molding art to attach a preform to a shell or another component by fasteners. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to

include in the claimed design into the connecting part of Taylor in order to facilitate the attachment of the connecting part to shell or another component. In regard to a connection to a filter unit that is direct and detachable, such is well-known in the filter art in order to ensure proper sealing. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to make the connection direct and detachable in order to achieve the above result. In regard to fasteners that are designed for snap-in or threaded connection, such are well-known fastening means in the filter art. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the claimed design into the connecting part of Taylor in order to facilitate the attachment of the connecting part to another part. In regard to a connecting part made of a polymer with a higher melting point than the polymer of the molded piece, or of cardboard or metal, connecting parts made of the claimed material are well-known. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have a connecting part of the claimed material in the apparatus of Taylor in order to produce a high-quality filter unit. In regard to the filter being operatively connected directly to the filter unit, it is wellknown to design a filter that can be directly connected to a filter unit. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to design the connecting part of Taylor to be capable of direct connection to a filter unit in order to reduce complexity and increase ease of use. In regard to a groove or tongue that extends continuously substantially completely around the inner surface, such is taught by the combination of Taylor and Kelman et al. In regard to at least one fastener

on the periphery of the connecting part for substantially gastight connect to an adapter, such is well-known in the molding art in order to allow for connection between parts. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide at least one fastener on the periphery of the connecting part in order to allow for good connection between the part and an adapter. In regard to an adapter that has a threaded portion, such is well-known in the molding art. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide an adapter with threaded portions in order to ensure proper connection between the part and the adapter. In regard to the adapter surround the periphery of the connecting part, such is well-known in the molding art. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide an adapter that surround the periphery of the part in order to ensure proper connection between the part and the adapter. In regard to the periphery of the connecting part is a snap-in or threadably connected to the adapter, such fastening means are well-known in the molding art. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to connect the part and the adapter through a snap-in or threaded connection in order to ensure proper connection between the part and the adapter.

4. Applicant's arguments filed 10/4/06 have been fully considered but they are not persuasive. Applicant argues that Kelman is non-analogous art. Applicant is reminded that it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the

applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992). In this case, Kelman is directly related to the problem concerning the applicant, i.e., bonding the mixture to the connecting part.

Applicant also argues that Taylor does not address the issue of a gas passing through an interface between the material and the connecting part. Taylor clearly teaches that a gas can be passed through the filter (col 5, Ins 55-60).

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDMUND H. LEE whose telephone number is

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571.272.1204. The examiner can normally be reached on MONDAY-THURSDAY

FROM 9AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni can be reached on 571.272.1196. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

EDMUND H. LEE Primary Examiner Art Unit 1732

EHL

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